

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended) An arc welding solid wire whose surface comprises copper plated film, wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is controlled in the range between 50 and 88%; with the proviso that said elastic limit ratio is controlled by installing three to eight elastic limit ratio control vertical rollers and three to eight elastic limit ratio control transverse rollers which have a ratio D/d equal to 40 to 60 (where D is roller diameter and d is wire diameter) following coil control vertical and transverse rollers after final drawing.

Claim 2 (Canceled)

Claim 3 (Canceled)

Claim 4 (Previously presented) An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 60.1.

Claim 5 (Previously presented) An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 61.2.

Claim 6 (Previously presented) An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 75.2.

Claim 7 (Previously presented) An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 76.6.

Claim 8 (Previously presented) An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 85.4.

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Claim 9 (Previously presented) An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 86.1.

Claim 10 (Previously presented) An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 88.0.

Claim 11 (Currently Amended) ~~An~~ The arc welding solid wire of claim 1 ~~whose surface comprises copper plated film,~~ wherein the elastic limit ratio, ~~elastic limit per tensile strength, of ratio of~~ the wire finally produced is controlled in the range between 60 and 88 %, wherein the elastic limit is the stress corresponding to the permanent elongation ratio of 0.05%.

Claim 12 (Cancelled)

Claim 13 (Previously presented) The arc welding solid wire of claim 1, wherein the elastic limit is the stress corresponding to the permanent elongation ratio of 0.05%.